

FIG. 1

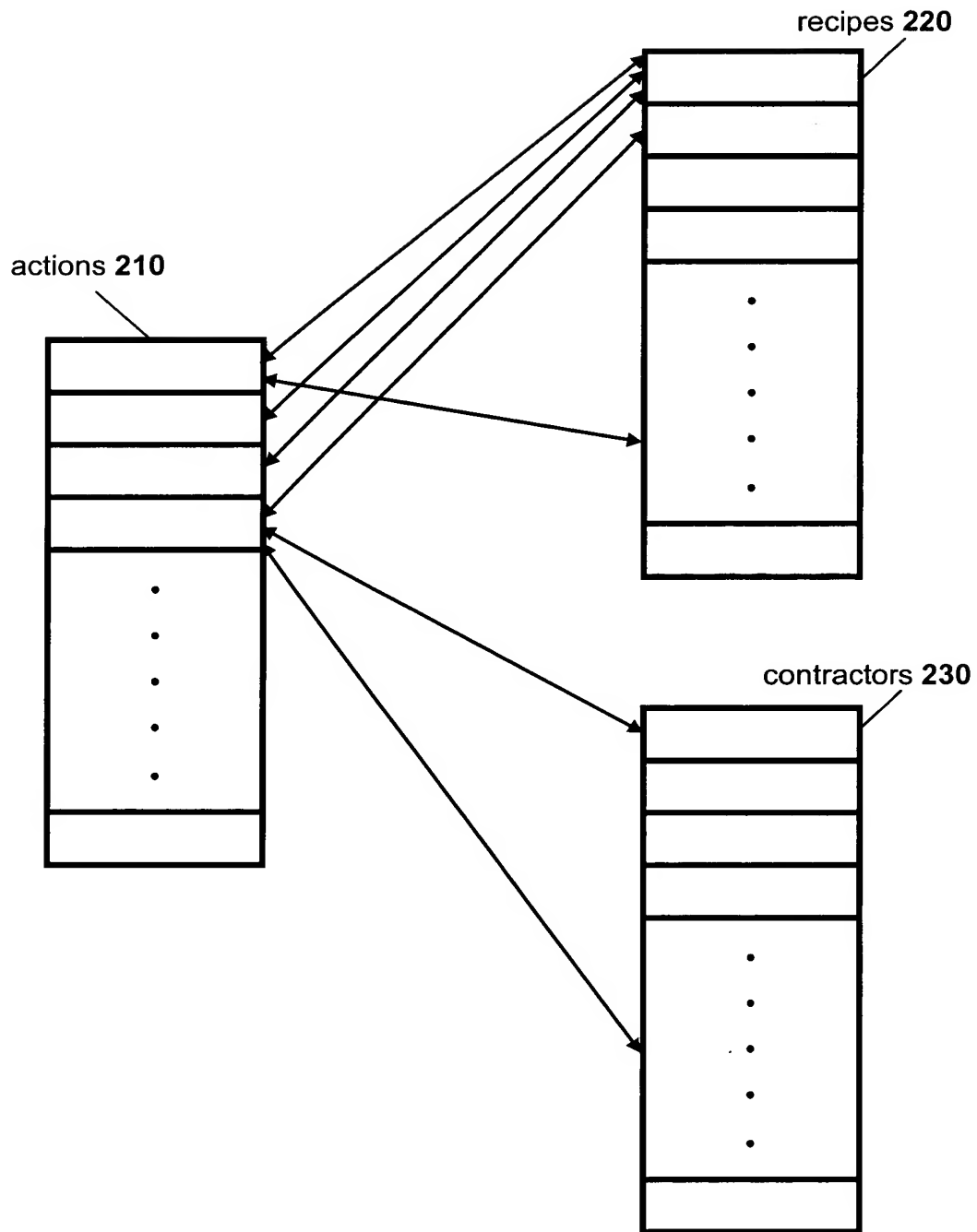


FIG. 2

for i=1 to length(actions)

if (actions[i].basicLevel())

actions[i].complexity=[actions[i].cost];

for j=1 to length(actions[i].actionOf())

(actions[i].actionOf())[j].updateRequired=true;

end for

end if

for j=1 to length(actions[i].contractors())

if actions[i].complexity=[]

actions[i].complexity=

contractors[(actions[i].contractors())[j]].getComplexity(actions[i]);

else

actions[i].complexity=actions[i].complexity

contractors[(actions[i].contractors())[j]].getComplexity(actions[i]);

end if

for j=1 to length(actions[i].actionOf())

(actions[i].actionOf())[j].updateRequired=true;

end for

end for

end for

FIG. 3

bothDone=false;

while(! bothDone)

```

    while(!recipeDone)
        recipeDone=true;
        for i=1 to length(recipes)
            if (recipes[i].updateRequired)
                recipes[i].complexity=[0];
                for j=1 to length(recipes[i].actions())
                    recipes[i].complexity=recipes[i].complexity
                    (recipes[i].actions())[j].complexity;
                end for
                recipeDone=false;
                for j=1 to length(recipes[i].recipeFor())
                    (recipes[i].recipeFor())[j].updateRequired=true;
                end for
            end if
        end for
    end while

```

```

    while(!actionDone)
        actionDone=true;
        for i=1 to length(actions)
            if (actions[i].updateRequired)
                actions[i].complexity= ;
                for j=1 to length(actions[i].recipes())
                    actions[i].complexity=actions[i].complexity
                    (actions[i].recipes())[j].complexity;
                end for
                actionDone=false;
                for j=1 to length(actions[i].actionOf())
                    (actions[i].actionOf())[j].updateRequired=true;
                end for
            end if
        end for
    end while

```

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    if (recipeDone && actionDone)
        bothDone=true;
    else
        recipeDone=false;
        actionDone=false;
    end if

```

end while

FIG. 4

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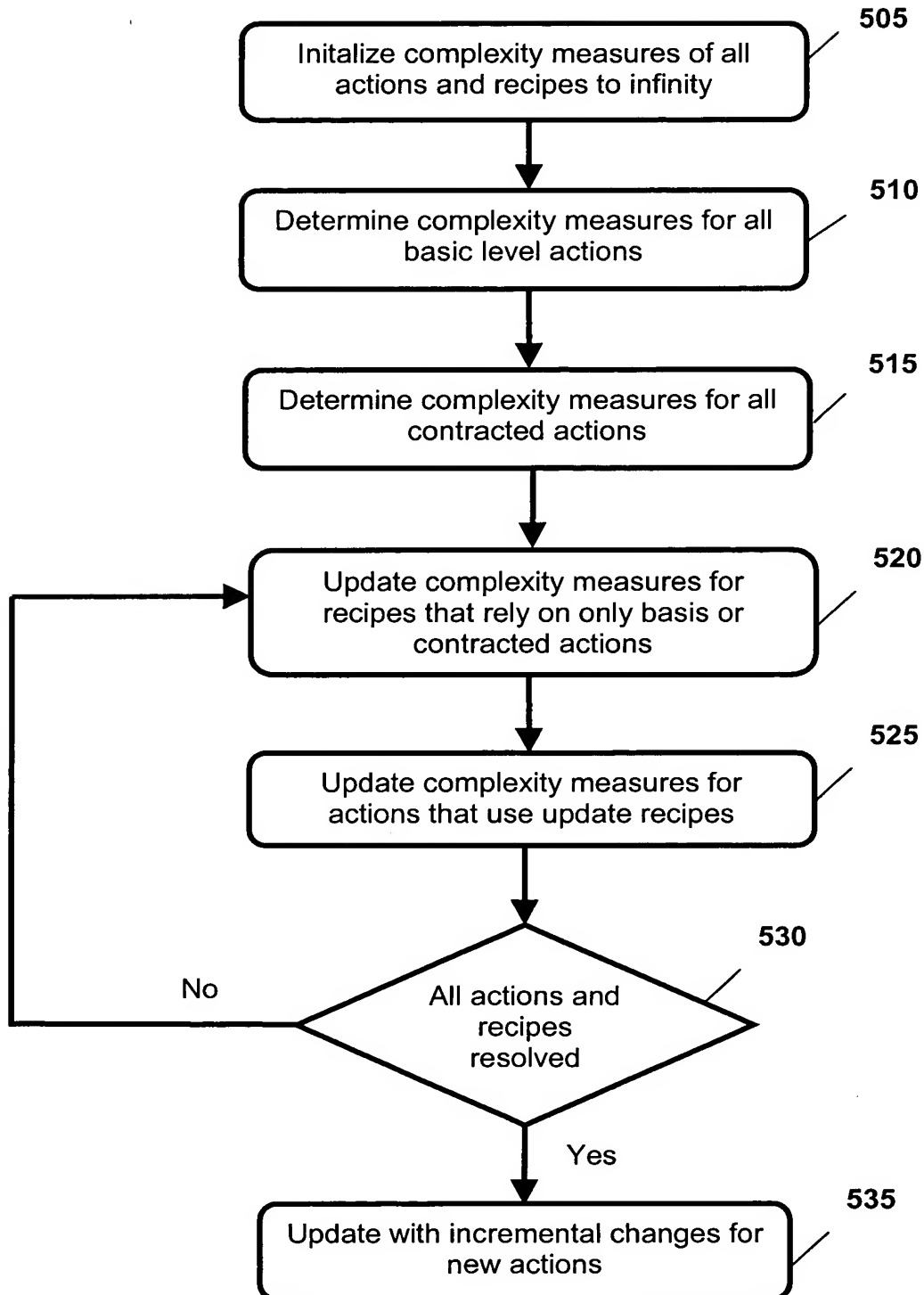


FIG. 5

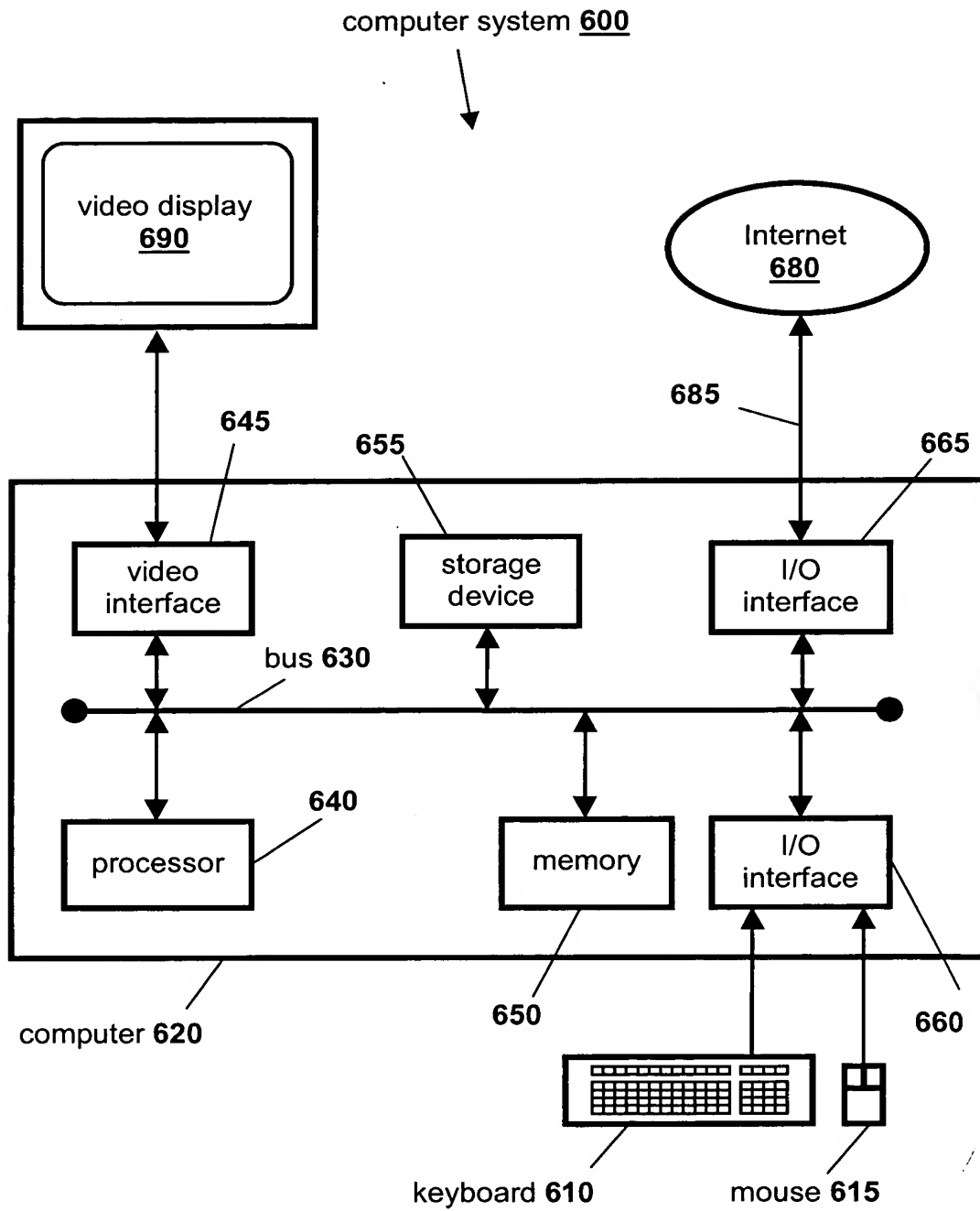


FIG. 6